# Author Index


Abraham, W.C., see Demmer, J. (17) 279
Akeson, R., see Reyes, A.A. (17) 201
Aldskogius, H., see Ernfors, P. (17) 217
Allen, J.M., see Le Van Thai, A. (17) 227
Almazan, G., see Figueiredo, B.C. (17) 258
Alonso, G., see Rage, F. (17) 287
Anders, M.W., see Patel, N.J. (17) 53
Asai, T., Wanaka, A., Kato, H., Masana, Y., Seo, M. and Tohyama, M.
Differential expression of two members of FGF receptor gene family, FGFR-1 and FGFR-2 mRNA, in the adult rat central nervous system (17) 174
Aulakh, C.S., see Lesch, K.P. (17) 31

Bain, G., Ramkumar, T.P., Cheng, J.M. and Gottlieb, D.I.
Expression of the genes coding for glutamic acid decarboxylase in pluripotent cell lines (17) 23
Baker, H., see Weiser, M. (17) 319
Barraclough, C.A., see Liaw, J.-J. (17) 112
Bergmann, B.M., see Landis, C.A. (17) 300
Berry, R.W., see Redman, R.S. (17) 245
Bloem, L.J., Chen, Y., Liu, J., Bye, L.S. and Yu, L.
Analysis of the promoter sequence and the transcription initiation site of the mouse 5-$HT_{1C}$ serotonin receptor gene (17) 194
Brachet, P., see Smith, C.J. (17) 328
Bravo, R., see Herdegen, T. (17) 147
Bruce, J., Schwartz, M.L., Shneidman, P.S. and Schlaepfer, W.W.
Methylation and expression of neurofilament genes in tissues and in cell lines of the mouse (17) 269
Bye, L.S., see Bloem, L.J. (17) 194

Carlson, S.G., see Mesco, E.R. (17) 160
Carrillo, A.J., see Signs, S.A. (17) 36
Chandrasekaran, K., see Fukuyama, R. (17) 17
Chen, Y., see Bloem, L.J. (17) 194
Cheng, J.M., see Bain, G. (17) 23
Collins, B.J., see Landis, C.A. (17) 300
Connelly, C.S., see Marchand, J.E. (17) 83
Coste, E., see Le Van Thai, A. (17) 227
Cribbs, L.L., see Landis, C.A. (17) 300
Cuello, A.C., see Figueiredo, B.C. (17) 258

Danoff, S.K., see Schell, M.J. (17) 212
Demmer, J., Dragunow, M., Lawlor, P.A., Mason, S.E., Leah, J.D., Abraham, W.C. and Tate, W.P.
Differential expression of immediate early genes after hippocampal long-term potentiation in awake rats (17) 279
De Vellis, J., see Kumar, S. (17) 163
Dluzen, D.E., see Signs, S.A. (17) 36
Dragunow, M., see Demmer, J. (17) 279

Ernfors, P., Rosario, C.M., Merlio, J.-P., Grant, G., Aldskogius, H. and Persson, H.
Expression of mRNAs for neurotrophin receptors in the dorsal root ganglion and spinal cord during development and following peripheral or central axotomy (17) 217

Fiallos-Estrada, C.E., see Herdegen, T. (17) 147
Figueiredo, B.C., Almazan, G., Ma, Y., Tetzlaff, W., Miller, F.D. and Cuello, A.C.
Gene expression in the developing cerebellum during perinatal hypo- and hyperthyroidism (17) 258
Fine, R.E., see Johnson, R.J. (17) 9
Firkusny, I.R., see Jensen, F.E. (17) 185
Freeman, R.S., see Smith, C.J. (17) 328
Frey, P., see Solà, C. (17) 41
Fujita, K., see Morita, S. (17) 239
Fukuyama, R., Chandrasekaran, K. and Rapoport, S.I.
Nerve growth factor-induced neuronal differentiation is accompanied by differential induction and localization of the amyloid precursor protein (APP) in PC12 cells and variant PC12S cells (17) 17
Fullone, J.S., see Patel, N.J. (17) 53
Furuyama, T., Morita, Y., Inagaki, S. and Takagi, H.
Distribution of I, II and III subtypes of voltage-sensitive $Na^+$ channel mRNA in the rat brain (17) 169

Gall, C.M., see Lauterborn, J.C. (17) 59
Gall, C.M., see Meberg, P.J. (17) 295
García-Ladona, F.J., see Rocamora, N. (17) 1
García-Ladona, F.J., see Solà, C. (17) 41
Ghetti, B., see Solà, C. (17) 340
Gluckman, P.D., see Klempt, M. (17) 347
Gottlieb, D.I., see Bain, G. (17) 23
Grainger, R.M., see Saha, M.S. (17) 307
Grant, G., see Ernfors, P. (17) 217

Han, E., see Joseph, R. (17) 70
Hart, R.P., see Riley, L.A. (17) 251
Herdegen, T., Fiallos-Estrada, C.E., Bravo, R. and Zimmermann, M.
Colocalisation and covariation of c-JUN transcription factor with galanin in primary afferent neurons and with CGRP in spinal motoneurons following transection of rat sciatic nerve (17) 147
Hicks, K.J., see Koistinaho, J. (17) 179
Hidaka, H., see Morita, S. (17) 239
Hill, J.L., see Lesch, K.P. (17) 31

Ichimura, T., see Watanabe, M. (17) 135
Igarashi, K., see Shintani, A. (17) 129
Inagaki, S., see Furuyama, T. (17) 169

Isackson, P.J., see Lauterborn, J.C. (17) 59
Isobe, T., see Watanabe, M. (17) 135

Jensen, F.E., Firkusny, I.R. and Mower, G.D.
Differences in c-*fos* immunoreactivity due to age and mode of seizure induction (17) 185
Joh, T.H., see Weiser, M. (17) 319
Johnson, R.J., Pyun, H.Y., Lytton, J. and Fine, R.E.
Differences in the subcellular localization of calreticulin and organellar $Ca^{2+}$-ATPase in neurons (17) 9
Johnson Jr., E.M., see Smith, C.J. (17) 328
Jonakait, G.M., see Riley, L.A. (17) 251
Joseph, J.A., see Mesco, E.R. (17) 160
Joseph, R., Li, W. and Han, E.
Neuronal death, cytoplasmic calcium and internucleosomal DNA fragmentation: evidence for DNA fragments being released from cells (17) 70
Joy, A.M., Siegel, H.N. and Lukas, R.J.
Photoaffinity labeling of muscle-type nicotinic acetylcholine receptors and neuronal/nicotinic $\alpha$-bungarotoxin binding sites with a derivative of $\alpha$-bungarotoxin (17) 95

Kaisho, Y., see Shintani, A. (17) 129
Kato, H., see Asai, T. (17) 174
Kimura, N., Kurosawa, N., Kondo, K. and Tsukada, Y.
Molecular cloning of the kainate-binding protein and calmodulin genes which are induced by an imprinting stimulus in ducklings (17) 351
Kiyama, H., see Shida, T. (17) 335
Klempt, M., Klempt, N.D. and Gluckman, P.D.
Hypoxia and hypoxia/ischemia affect the expression of insulin-like growth factor binding protein 2 in the developing rat brain (17) 347
Klempt, N.D., see Klempt, M. (17) 347
Kobayashi, K., see Morita, S. (17) 239
Koistinaho, J., Hicks, K.J. and Sagar, S.M.
Tetrodotoxin enhances light-induced c-*fos* gene expression in the rabbit retina (17) 179
Kondo, E., see Shida, T. (17) 335
Kondo, H., see Watanabe, M. (17) 135
Kondo, K., see Kimura, N. (17) 351
Kream, R.M., see Marchand, J.E. (17) 83
Krey, L.C., see Weesner, G.D. (17) 77
Kumar, S., Peña, L.A. and De Vellis, J.
CNS glial cells express neurotrophin receptors whose levels are regulated by NGF (17) 163
Kurosawa, N., see Kimura, N. (17) 351
Kuwano, R., see Watanabe, M. (17) 135

Landis, C.A., Collins, B.J., Cribbs, L.L., Sukhatme, V.P., Bergmann, B.M., Rechtschaffen, A. and Smalheiser, N.R.

Expression of Egr-1 in the brain of sleep deprived rats (17) 300
Lauterborn, J.C., Isackson, P.J., Montalvo, R. and Gall, C.M.
In situ hybridization localization of choline acetyltransferase mRNA in adult rat brain and spinal cord (17) 59
Lawlor, P.A., see Demmer, J. (17) 279
Leah, J.D., see Demmer, J. (17) 279
Lesch, K.P., Aulakh, C.S., Wolozin, B.L., Tolliver, T.J., Hill, J.L. and Murphy, D.L.
Regional brain expresssion of serotonin transporter mRNA and its regulation by reuptake inhibiting antidepressants (17) 31
Le Van Thai, A., Coste, E., Allen, J.M., Palmiter, R.D. and Weber, M.J.
Identification of a neuron-specific promoter of human aromatic L-amino acid decarboxylase gene (17) 227
Li, W., see Joseph, R. (17) 70
Liaw, J.-J. and Barraclough, C.A.
*N*-Methyl-D,L-aspartic acid differentially affects LH release and LHRH mRNA levels in estrogen-treated ovariectomized control and androgen-sterilized rats (17) 112
Liu, J., see Bloem, L.J. (17) 194
Lukas, R.J., see Joy, A.M. (17) 95
Lytton, J., see Johnson, R.J. (17) 9

Ma, Y., see Figueiredo, B.C. (17) 258
Marchand, J.E., Zaccheo, T.S., Connelly, C.S. and Kream, R.M.
Selective in situ hybridization histochemical analyses of alternatively spliced mRNAs encoding $\beta$- and $\gamma$-preprotachykinins in rat central nervous system (17) 83
Masana, Y., see Asai, T. (17) 174
Mason, S.E., see Demmer, J. (17) 279
Meberg, P.J., Gall, C.M. and Routtenberg, A.
Induction of F1/GAP-43 gene: expression in hippocampal granule cells after seizures (17) 295
Mengod, G., see Rocamora, N. (17) 1
Mengod, G., see Solà, C. (17) 41
Mengod, G., see Solà, C. (17) 340
Merlio, J.-P., see Ernfors, P. (17) 217
Mesco, E.R., Carlson, S.G., Joseph, J.A. and Roth, G.S.
Decreased striatal $D_2$ dopamine receptor mRNA synthesis during aging (17) 160
Miller, F.D., see Figueiredo, B.C. (17) 258
Mizuguchi, T., see Morita, S. (17) 239
Montalvo, R., see Lauterborn, J.C. (17) 59
Mori, N., Tajima, Y., Sakaguchi, H., Vandenbergh, D.J., Nawa, H. and Salvaterra, P.M.
Partial cloning of the rat choline acetyltransferase gene and in situ localization of its transcripts in the cell body of cholinergic neurons in the brain stem and spinal cord (17) 101
Morita, S., Kobayashi, K., Mizuguchi, T., Yamada, K., Nagatsu, I., Titani, K., Fujita, K., Hidaka, H. and Nagatsu, T.
The 5′-flanking region of the human dopamine $\beta$-hydroxylase gene promotes neuron subtype-specific gene expression in the central nervous system of transgenic mice (17) 239
Morita, Y., see Furuyama, T. (17) 169
Mower, G.D., see Jensen, F.E. (17) 185
Murphy, D.L., see Lesch, K.P. (17) 31

Nagatsu, I., see Morita, S. (17) 239
Nagatsu, T., see Morita, S. (17) 239
Nakamura, H., see Tsuneishi, S. (17) 119
Nawa, H., see Mori, N. (17) 101
Neveu, I., see Smith, C.J. (17) 328

Ohno, K., see Shida, T. (17) 335
Ono, Y., see Shintani, A. (17) 129
Osborne, P., see Smith, C.J. (17) 328

Palacios, J.M., see Rocamora, N. (17) 1
Palacios, J.M., see Solà, C. (17) 41
Palacios, J.M., see Solà, C. (17) 340
Palmiter, R.D., see Le Van Thai, A. (17) 227
Patel, N.J., Fullone, J.S. and Anders, M.W.
Brain uptake of *S*-(1,2-dichlorovinyl)glutathione and *S*-(1,2-dichlorovinyl)-L-cysteine, the glutathione and cysteine *S*-conjugates of the neurotoxin dichloroacetylene (17) 53
Peña, L.A., see Kumar, S. (17) 163
Persson, H., see Ernfors, P. (17) 217
Pfaff, D.W., see Weesner, G.D. (17) 77
Probst, A., see Solà, C. (17) 41
Pyun, H.Y., see Johnson, R.J. (17) 9

Rage, F., Alonso, G. and Tapia-Arancibia, L.
Stimulatory effect of *N*-methyl-D-aspartate on somatostatin gene expression in cultured hypothalamic neurons (17) 287
Ramkumar, T.P., see Bain, G. (17) 23
Rapoport, S.I., see Fukuyama, R. (17) 17
Rechtschaffen, A., see Landis, C.A. (17) 300
Redman, R.S. and Berry, R.W.
Temperature-dependent stimulation and inhibition of adenylate cyclase by *Aplysia* bag cell peptides (17) 245
Reyes, A.A., Schulte, S.V., Small, S. and Akeson, R.
Distinct NCAM splicing events are differentially regulated during rat brain development (17) 201
Riley, L.A., Jonakait, G.M. and Hart, R.P.
Serotonin modulates the levels of mRNAS coding for thyrotropin-releasing hormone and preprotachykinin by different mechanisms in medullary raphe neurons (17) 251
Rocamora, N., García-Ladona, F.J., Palacios, J.M. and Mengod, G.
Differential expression of brain-derived neurotrophic factor, neurotrophin-3, and low-affinity nerve growth factor receptor during the postnatal development of the rat cerebellar system (17) 1
Rosario, C.M., see Ernfors, P. (17) 217
Ross, C.A., see Schell, M.J. (17) 212
Roth, G.S., see Mesco, E.R. (17) 160
Routtenberg, A., see Meberg, P.J. (17) 295

Sagar, S.M., see Koistinaho, J. (17) 179
Saha, M.S. and Grainger, R.M.
Early opsin expression in *Xenopus* embryos precedes photoreceptor differentiation (17) 307
Saika, T., see Shida, T. (17) 335
Sakaguchi, H., see Mori, N. (17) 101
Salvaterra, P.M., see Mori, N. (17) 101
Sano, K., see Tsuneishi, S. (17) 119
Sasada, R., see Shintani, A. (17) 129
Schell, M.J., Danoff, S.K. and Ross, C.A.
Inositol (1,4,5)-trisphosphate receptor: characterization of neuron-specific alternative splicing in rat brain and peripheral tissues (17) 212
Schlaepfer, W.W., see Bruce, J. (17) 269
Schulte, S.V., see Reyes, A.A. (17) 201
Schwartz, M.L., see Bruce, J. (17) 269
Seo, M., see Asai, T. (17) 174
Shida, T., Tokunaga, A., Kondo, E., Ueda, Y., Ohno, K., Saika, T., Kiyama, H. and Tohyama, M.
Expression of muscarinic and nicotinic receptor mRNA in the salivary gland of rats: a study by in situ hybridization histochemistry (17) 335
Shintani, A., Ono, Y., Kaisho, Y., Sasada, R. and Igarashi, K.
Identification of the functional regulatory region of the neurotrophin-3 gene promoter (17) 129
Shneidman, P.S., see Bruce, J. (17) 269
Siegel, H.N., see Joy, A.M. (17) 95
Signs, S.A., Dluzen, D.E. and Carrillo, A.J.
*Para*-chlorophenylalanine treatment inhibits the expression of vasoactive intestinal peptide messenger RNA in rat anterior pituitary (17) 36
Smalheiser, N.R., see Landis, C.A. (17) 300
Small, S., see Reyes, A.A. (17) 201
Smith, C.J., Johnson Jr., E.M., Osborne, P., Freeman, R.S., Neveu, I. and Brachet, P.
NGF deprivation and neuronal degeneration trigger altered $\beta$-amyloid precursor protein gene expression in the rat superior cervical ganglia in vivo and in vitro (17) 328
Solà, C., García-Ladona, F.J., Mengod, G., Probst, A., Frey, P. and Palacios, J.M.
Increased levels of the Kunitz protease inhibitor-containing $\beta$APP mRNAs in rat brain following neurotoxic damage (17) 41
Solà, C., Mengod, G., Ghetti, B., Palacios, J.M. and Triarhou, L.C.
Regional distribution of the alternatively spliced isoforms of $\beta$APP RNA transcript in the brain of normal, heterozygous and homozygous weaver mutant mice as revealed by in situ hybridization histochemistry (17) 340
Sukhatme, V.P., see Landis, C.A. (17) 300

Tajima, Y., see Mori, N. (17) 101
Takagi, H., see Furuyama, T. (17) 169

Takahashi, Y., see Watanabe, M. (17) 135
Takemura, M., see Walther, D. (17) 155
Tapia-Arancibia, L., see Rage, F. (17) 287
Tate, W.P., see Demmer, J. (17) 279
Tetzlaff, W., see Figueiredo, B.C. (17) 258
Titani, K., see Morita, S. (17) 239
Tohyama, M., see Asai, T. (17) 174
Tohyama, M., see Shida, T. (17) 335
Tokunaga, A., see Shida, T. (17) 335
Tolliver, T.J., see Lesch, K.P. (17) 31
Triarhou, L.C., see Solà, C. (17) 340
Tsukada, Y., see Kimura, N. (17) 351
Tsuneishi, S., Sano, K. and Nakamura, H.
Serum depletion increases the neurofilament protein mRNA levels in a neuroblastoma cell line, GOTO (17) 119

Ueda, Y., see Shida, T. (17) 335
Uhl, G., see Walther, D. (17) 155

Vandenbergh, D.J., see Mori, N. (17) 101

Walther, D., Takemura, M. and Uhl, G.
Fos family member changes in nucleus caudalis neurons after primary afferent stimulation: enhancement of *fos* B and c-*fos* (17) 155
Wanaka, A., see Asai, T. (17) 174
Watanabe, M., Isobe, T., Ichimura, T., Kuwano, R., Takahashi, Y. and Kondo, H.
Molecular cloning of rat cDNAs for $\beta$ and $\gamma$ subtypes of 14-3-3 protein and developmental changes in expression of their mRNAs in the nervous system (17) 135
Weber, M.J., see Le Van Thai, A. (17) 227
Weesner, G.D., Krey, L.C. and Pfaff, D.W.
$\alpha_1$ Adrenergic regulation of estrogen-induced increases in luteinizing hormone-releasing hormone mRNA levels and release (17) 77
Weiser, M., Baker, H., Wessel, T.C. and Joh, T.H.
Axotomy-induced differential gene induction in neurons of the locus ceruleus and substantia nigra (17) 319
Wessel, T.C., see Weiser, M. (17) 319
Wolozin, B.L., see Lesch, K.P. (17) 31

Yamada, K., see Morita, S. (17) 239
Yu, L., see Bloem, L.J. (17) 194

Zaccheo, T.S., see Marchand, J.E. (17) 83
Zimmermann, M., see Herdegen, T. (17) 147

*(contents continued)*

---

Regional distribution of the alternatively spliced isoforms of $\beta$APP RNA transcript in the brain of normal, heterozygous and homozygous weaver mutant mice as revealed by in situ hybridization histochemistry
C. Solà, G. Mengod, B. Ghetti, J.M. Palacios and L.C. Triarhou (Switzerland, Spain, USA) 340
Hypoxia and hypoxia/ischemia affect the expression of insulin-like growth factor binding protein 2 in the developing rat brain
M. Klempt, N.D. Klempt and P.D. Gluckman (New Zealand) 347
Molecular cloning of the kainate-binding protein and calmodulin genes which are induced by an imprinting stimulus in ducklings
N. Kimura, N. Kurosawa, K. Kondo and Y. Tsukada (Japan) 351

*Author Index* 356